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ABSTRACT OF THE DISCLOSURE

A method and corresponding apparatus for determining the centroid $(\mbox{\ensuremath{V_{c}}})$ of a waveform signal being sampled at a set of parameter values (V_i , i=1, ..., n) yielding a corresponding set of sampled amplitudes (A, i=1, ..., n), each parameter value and corresponding amplitude forming a sampled point (V_i, A_i) , the method including the steps of: selecting an amplitude at which to create an interpolated point; interpolating a first parameter value corresponding to the amplitude selected in the step of selecting an amplitude; and performing a centroid calculation using only the sampled points with an amplitude greater than a predetermined threshold. The waveform is sometimes sampled in the presence of background noise, and the method sometimes also includes: estimating the background (B_i) for each value in the set of parameter values at which sampling is performed; and reducing the amplitude $(A_{\rm i})$ of each sampled amplitude by the background (Bi) so estimated.